



# *Missouri Court Automation*

## **Hardware and Software Standards**

### **November 2003**

## **INTRODUCTION**

The attached table is a compilation of the court automation infrastructure standards adopted by the Missouri Court Automation Committee. Note that the standards specify minimum configurations and also the configuration most commonly purchased now. These are for new purchases and do not impact current equipment and software, which work successfully with Court Automation solutions.

Because of Judicial Information System (JIS, formerly Banner) requirements, the Standards have been expanded to include more specific language relating particularly to server and printer specifications.

- The Applications Server provided for each court is reserved for JIS and other system applications. It is configured by technical staff for the optimal configuration. No modifications to the server are allowed without specific approval, in writing, by the Project Director.
- Print requirements for JIS dictate the use of networked printers. Printers shared from workstations and local printers are not acceptable for JIS.

Software versions have generally been removed from the descriptions with the current released version of software accepted as standard. The significant exception to this is that the network operating system for the Application Server must be Microsoft Windows **2000 Advanced Server, Service Pack 3**. This version and service pack level is routinely installed on these servers and may not be changed.

For courts not purchasing from the competitively bid state contracts, specifications for court automation workstations are attached. These specifications must be used to guarantee compliance and compatibility.

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Hardware/Software Component	Standard
<b>SERVERS, WORKSTATIONS, AND PRINTERS</b>	
<b>Desktop Personal Computer</b> (Minimum Configuration)	For new computers, <ul style="list-style-type: none"> <li>▪ Pentium processor (MHz based on current availability)</li> <li>▪ 256 MB RAM</li> <li>▪ <b>20</b> GB hard drive</li> <li>▪ 17" SVGA color monitor</li> <li>▪ 3COM or Integrated Intel 10/100 Ethernet card</li> <li>▪ CD-ROM drive</li> </ul> Sound Card (recommended, but optional)
<b>Laptop Personal Computer</b> (Minimum Configuration)	For new computers, <ul style="list-style-type: none"> <li>▪ Pentium processor (MHz based on current availability)</li> <li>▪ 256 MB RAM</li> <li>▪ 6 GB hard drive</li> <li>▪ 14 inch or greater TFT XGA color screen</li> <li>▪ 3COM 574 or Integrated Intel or Integrated Brocade 10/100/1000 Ethernet card</li> <li>▪ CD-ROM drive</li> <li>▪ Sound Card (recommended, but optional)</li> <li>▪ Modem (minimum speed of 56kbps, Support for the Hayes AT command set)</li> </ul> (Recommended but optional)
<b>Servers – LAN, Lotus Notes, Forms</b> (Minimum Configuration)	<b>HP/Compaq Proliant</b> Pentium <b>700</b> MHz 1GB RAM <b>3 - 36</b> GB hard drives
<b>Servers – Application</b> (Minimum Configuration)	<b>HP/Compaq Proliant</b> Pentium <b>700</b> MHz, dual Processor, <b>1G</b> MB RAM <b>5 - 36</b> GB hard drives RAID-5 redundancy/RAID 0+1
<b>Printers</b>  Most Common Now: HP LaserJet 2300DN or 2300DTN, HP4200N or 4200TN HP3000N (color printer) HP DeskJet 692C (not JIS Compliant) <b>Printable area must be at least a quarter inch each side of the page and support postscript printing.</b>	<b>Hewlett Packard LaserJet and DeskJet Series</b>  For JIS Courts System processing, printers <u>must</u> support PCL5 <b>For JMS Courts System processing, printers <u>must</u> support PCL6</b>

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<b>Multifunction Products</b> With Printer, Copier, FAX, Scanner capabilities	Acceptable (still in testing): Canon ImageRunner Lexmark X Series and OptraImage
<b>Bar Code Printer (Label Printer)</b>	<b>Acceptable:</b> Sato CX208TT or CX212 (Requires an external print server for networking)
<b>Check Printer</b>	<b>Lexmark Optra S with MICR modules (may need to be customized)</b>  For courts which elect to print magnetic coding on checks - Must contact OSCA technical staff before purchasing.
<b>Print Servers</b>  <b>Bar Code Scanner</b>	<b>Hewlett Packard Jet Direct EX Plus</b>  Required for network printers without an internal print server <b>Programmable Code Laser Scanner</b>  Hand held laser scanner with a PS/2 keyboard adapter, useable with Windows 95 or Windows NT application
<b>LOCAL AREA NETWORK (LAN) PERIPHERALS</b>	
<b>Tape Drives</b>	<b>ADIC</b>
<b>Uninterruptible Power Supply</b>	<b>APC Smart UPS</b>
<b>Modems</b>	Minimum speed of 56 kbps, Support for the Hayes AT command set (recommended but optional)
<b>Optical Storage</b>	CD-ROM/CD-/CD-RW
<b>Networked CD-ROM Drive Option</b>	Standalone CD-ROM Miniserver
<b>LOCAL AREA NETWORK AND WORKSTATION SOFTWARE</b>	
<b>Network Operating System</b>	Windows 2000 Server w/Service Pack 3 for Domain Controllers and File Servers Windows 2000 Advanced Server w/SP3 for Application Servers/Database Servers
<b>Desktop Operating System</b>	Microsoft Windows 2000 Professional w/SP3

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Hardware/Software Component	Standard
<b>Office Automation</b> (word processing, spread sheet, presentation, data base)	<b>Microsoft Office 97</b> with scheduled replacement by <b>Microsoft Office XP</b> with implementation of JIS 4.1 Phase II  JIS software currently requires Word 97 for its forms/merge functionality
<b>Help Desk</b>	<b>ASG Impact</b>
<b>Project Management Software</b>	<b>Microsoft Project</b>
<b>WEB Browser</b>	<b>Microsoft Internet Explorer</b>
<b>Groupware/Electronic Mail</b>	<b>Lotus Notes</b>
<b>Document Viewer</b>	<b>Adobe Acrobat</b>
<b>Anti-Virus Software</b>	<b>InoculatelT, Antigen</b>
<b>Workflow/Graphics</b>	<b>Visio, Netviz</b>
<b>Report Generator</b>	<b>Crystal Reports, Cognos Impromptu</b>
<b>Remote Communications</b>	<b>PC Anywhere, SMS</b>
<b>File Compression</b>	<b>WinZip</b>
<b>Network Backup Software</b>	<b>ARCserve</b>
<b>Network Management Software</b>	<b>Microsoft System Management Server (SMS) and Cisco Works. MS Software Update Services (SUS)</b>
<b>WAN/LAN COMPONENTS</b>	
<b>Hubs and Switches</b>	<b>Cisco</b>
<b>Routers</b>	<b>Cisco</b>
<b>LAN Wiring</b>	<b>Category 5E UTP Wiring System</b>
<b>LAN Topology</b>	<b>10Base T / 100 Base TX Ethernet</b>
<b>Network Protocol</b>	<b>TCP/IP</b>
<b>Internet Access</b>	<b>IVDN Network (State of Missouri Network)</b>
<b>Remote Access/Security</b>	<b>Microsoft Remote Access Service (RAS) and RSA Secure ID tokens</b>

**For additional information, contact OSCA  
at (573) 522-5577 or via Lotus Notes at  
OSCA Help Desk**

**Statewide Court Automation**  
**Minimum Personal Computer Requirements**  
**for Courts Conducting Competitive Bid Process**

The following are the minimum requirements for personal computers for use with statewide court automation. If a court is not purchasing computers from the prime vendor contract, the following must be specified:

- Intel Pentium® compatible processor, Intel Pentium III processor, at least 933 MHz
- Intel motherboard
- **256 MB** RAM with 512K L2 Cache
- 3 Com 905C PCI or Integrated Intel 10/100 or Integrated Brocade 10/100/1000 NIC
- CD ROM drive
- **16 MB** PCI or AGP Video card
- 17" SVGA Color Monitor, .28dot, 1024x768 resolution @ 75hz
- **20 GB** Ultra ATA IDE Hard Drive
- 104 key Keyboard
- Microsoft or Logitech PS/2 Mouse
- DMI 2.0 compliant desktop management software
- Desktop or Tower Case
- Windows 2000 Professional or Windows XP Professional (Note: XP will be downgraded to Win2K)
- InoculateIT anti-virus software
- 3 year warranty w/1 year on-site, 4 hour response service
- 7 x 24 toll free telephone support
- All components must be on the Windows 2000 Hardware Compatibility List

Note: Compaq has discontinued use of the Intel NICs in favor of standardizing on Brocade, due to driver supportability issues with Intel. OSCA will be better positioned to support the NIC drivers used by Compaq/HP computers.

If a computer does not meet these minimum specifications, the Office of State Courts Administrator will not be able to ensure that court automation software will work correctly or that OSCA support will be available.